

International application No.

PCT/AU03/00700

| | | | | 21/AU03/00/00 | |
|---|--|----------------------|--|---------------------------------------|--|
| Α. | CLASSIFICATION OF SUBJECT N | MATTE | R | | |
| Int. Cl. 7: | G01R 29/10 | | | | |
| According to | International Patent Classification (IPC) | or to b | oth national classification and IPC | | |
| В. | FIELDS SEARCHED | | | | |
| Minimum doc | umentation searched (classification system fo | llowed b | y classification symbols) | | |
| Documentation | n searched other than minimum documentation | - to the | | to Calda assembled | |
| | | | | | |
| Electronic data WPAT, USI | a base consulted during the international search PTO: antenna, aerial, transmitter, far | ch (name field, n | of data base and, where practicable, search lear field, model and similar terms | terms used) | |
| С. | DOCUMENTS CONSIDERED TO BE R | ELEVA | NT | | |
| Category* | Citation of document, with indication, | where a | appropriate, of the relevant passages | Relevant to claim No. | |
| 37 | US 3879733 A (HANSEN et al) 22 | 2 April | 1975 | | |
| X | Whole document | | | 1-34 | |
| | CA 2033375 A (HAZELTINE CORPORATION) 3 April 1992 | | | | |
| X | Whole document | | | | |
| | | | | | |
| Х | US 5119105 A (NGAI et al) 2 June 1992 X Whole document | | | | |
| | | | | | |
| X F | urther documents are listed in the cor | ntinuati | on of Box C X See patent | family annex | |
| * Special | categories of cited documents: | | | | |
| | nt defining the general state of the art not considered to be of particular | "T" | later document published after the internati and not in conflict with the application but | | |
| relevance or t | | | r theory underlying the invention ocument of particular relevance; the claimed invention cannot be | | |
| after the international filing date considered novel or cannot be considered to involve an | | | | | |
| when the document is taken alone "L" document which may throw doubts on priority "Y" document of particular relevance; the claimed inventi | | | | | |
| claim(s) or which is cited to establish the considered to involve an inventive step when the depublication date of another citation or other special with one or more other such documents, such comb | | | | | |
| reason (as specified) a person skilled in the art "O" document referring to an oral disclosure, use, "&" document member of the same patent family | | | | | |
| exhibitio | n or other means t published prior to the international filing | | parent tall | J | |
| date but l | ater than the priority date claimed | | | | |
| Date of the actual 1 July 2003 | l completion of the international search | | Date of mailing of the international sea | rch report - 5 AU6 2003 | |
| | g address of the ISA/AU | | Authorized officer | · · · · · · · · · · · · · · · · · · · | |
| USTRALIAN F | PATENT OFFICE | | | | |
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU03/00700

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | | | | |
|-----------|--|------|--|--|--|
| Х | WO 93/11581 A1 (ALLIED-SIGNAL, INC.) 10 June 1993 Whole document | 1-34 | | | |
| . X | US 5394157 A (GARNESKI) 28 February 1995 Whole document | 1-34 | | | |
| x | US 5477229 A (CAILLE et al) 19 December 1995 Whole document | 1-34 | | | |
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU03/00700

| Box I | Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet) |
|----------|---|
| This is | nternational search report has not been established in respect of certain claims under Article 17(2)(a) for the following |
| 1. | Claims Nos: |
| | because they relate to subject matter not required to be searched by this Authority, namely: |
| | |
| | |
| 2. | Claims Nos: |
| | because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: |
| | |
| | |
| 3. | Claims Nos: |
| | because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a) |
| Вох П | Observations where unity of invention is lacking (Continuation of item 3 of first sheet) |
| This In | ternational Searching Authority found multiple inventions in this international application, as follows: |
| 1. 2. | Claims 1-22 are directed to a method of determining near field radiation characteristics of a radiating device Claims 23-27 are directed to a method of estimating radiation power density level |
| 3. | Claims 28-34 are directed to a method of calculating power density level at a point in space |
| as re | easoned on the extra sheet. |
| 1. | As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims |
| 2. | As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. |
| 3. | As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: |
| | |
| | |
| 4. | No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims it is consequently. |
| | is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: |
| | |
| Remark | on Protest |
| • | No protest accompanied the payment of additional search fees. |



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| Supplemental Box | Sup | plem | ental | Box |
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(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: II

The different inventions are:

- 1. Claims 1-22 directed to a method of determining near field radiation characteristics of a radiating device from a model which approximates determined far field characteristics of the device.
- 2. Claims 23-27 directed to a method of estimating radiation power density level by summing the contributions of many point sources representing the radiating device.
- 3. Claims 28-34 directed to a method of calculating power density level at a point in space from the far field radiation characteristics of a radiating device, the boundary between the far and near field radiation and the displacement of a point in space relative to the closest point on the radiating device.



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Information on patent family members

INTERNATIONAL SEARCH REPORT

information on patent family members

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

| Pater | nt Document Cited in Search Report | | | Pate | ent Family Member | | | |
|-------|---------------------------------------|-----|----------|------|-------------------|----|---------|--|
| US | 3879733 | NIL | | | | | | |
| CA | 2033375 | US | 5270723 | US | 5410319 | US | 5214435 | |
| | | ΑŪ | 52962/90 | UA | 67768/90 | CA | 2013721 | |
| | | EP | 467997 | IL. | 94079 | wo | 9012327 | |
| US | 5119105 | NIL | | | | | | |
| WO | 9311581 | EP | 615659 | US | 5229776 | | | |
| US | 5394157 | NIL | | | | | | |
| US | 5477229 | EP | 591049 | FR | 2696553 | | | |

END OF ANNEX

